

*LP-2264*  
*Approved*  
*ECPS*

24 February 1966

Dear Joe:

The Contractor is hereby directed to comply with the provisions of Engineering Change Proposals GR-54 and GR-58 pursuant to the "Changes" clause of Contract No. LP-2264.

Wendell

OSA - 0954-66

cy. 1 of 2

21 FEB 1966

Subject: ECPs 46A, 54, and 58, Contract LP-2264

Dear Chuck,

Subject ECPs have been technically approved by the SPO.  
Request you give  formal approval of these ECPs.

STATINTL

Specific comments regarding each ECP are as follows:

ECP 46A - This revision is only to change the method of identifying the modification. We concur that a new part number is more appropriate.

ECP 54 - This change will also result in easier alignment of the recorder. Therefore, retrofit is desirable, on a low priority basis.

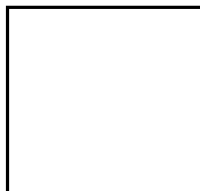
ECP 58 - Although omitted from the ECP, this change will require accompanying maintenance manual and aperture card changes.

Regards,

*Ben*

STATINTL

Copy:



|  |  |   |  |   |   |
|--|--|---|--|---|---|
| <b>GA - 531</b>  |  | ENGINEERING STUDY <input type="checkbox"/><br>CHANGE PROPOSAL <input checked="" type="checkbox"/> |  | <b>GR- 46 Rev. A.</b>   |   |
| DATE 26 January 1966   |  | AFFECTS: GA 531 <input type="checkbox"/>  |  | STATINTL  |   |
| NAME OF MAJOR COMPONENT<br>Recorder Magazine   |  | PART OR LOWEST SUBASSEMBLY<br>Shutter Lever Assembly  |  | PART NO.<br>MODEL OR TYPE<br>531A723-000-101 (old)<br>531A723-021-101 (new) |   |
| TITLE OF PROPOSAL: Change Spring Action on Shutter Lever Assembly  |  |   |  |   |   |
| NATURE OF PROPOSAL:<br>REF: REW KP-I-233<br><br>Replace 531A723-014-1 Spring and 531A723-008-101 Lever Assembly with new 531A723-022-1 Spring, 531A723-023-1 Guide Block and 531A723-021-1 Lever Assembly.<br><br>A new P/N 531A719-001-105 will be assigned to the 531A719-001-103 Recorder Magazine Cover. |  |   |  |   |   |
| REASON FOR PROPOSAL:<br><br>Design improvement to increase reliability of shutter assembly action. The shutter has not been consistently closing when Magazine is pulled from the Recorder.  |  |   |  |   |   |
| <b>ES</b>  |  | ESTIMATED COST AND TIME INVOLVED:<br>ADDITIONAL FUNDING REQUIRED:                                 |  |   |   |
| <b>CP</b>  |  | ESTIMATED COST FOR KITS OR PARTS: N/A<br>ADDITIONAL FUNDING REQUIRED:                             |  |   |   |
| ITEMS AFFECTED BY PROPOSAL: Production units S/N 7002-9 thru 19 to be retrofitted, S/N 7002-20 and subs in line.   |  |   |  |   |   |
| SAFETY<br><input type="checkbox"/>   | MISSION EFFEC-<br>TIVENESS<br><input type="checkbox"/> | PERFORM-<br>ANCE<br><input checked="" type="checkbox"/>   | OPERATING<br>PROCEDURE<br><input type="checkbox"/> | INTER-<br>CHANGE-<br>ABILITY<br><input type="checkbox"/>                    | WEIGHT OR<br>WEIGHT<br>AND<br>BALANCE<br><input type="checkbox"/> |
|  |  |   |  |   | TOOLS AND<br>SUPPORT<br>EQUIPMENT<br><input type="checkbox"/>     |
|  |  |   |  |   | MAINTENANCE<br>PROCEDURE<br><input checked="" type="checkbox"/>   |
|  |  |   |  |   | SERVICE<br>LIFE<br><input checked="" type="checkbox"/>            |
|  |  |   |  |   | FLIGHT<br>MANUAL<br><input type="checkbox"/>                      |
|  |  |   |  |   | MAINTENANCE<br>MANUAL<br><input checked="" type="checkbox"/>      |
| ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD:<br>1 hr disassemble; 3 hr change and checkout; 1 hr reassemble.  |  |   |  |   |   |
| SOURCE OF PARTS FOR KIT: GR  |  |   | AVAILABILITY <u>8</u> WEEKS AFTER APPROVAL         |   |   |
| DISPOSITION OF SPARES AFFECTED: Spares to be reworked to latest configuration.<br>PPB to be changed by C/N to PS0.   |  |   |  |   |   |
| IN <input type="checkbox"/>  |  |   |  |   |   |

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|--|---|---|--|---|---|---|--|---|--|---|
| <b>GA - 531</b>  |   | ENGINEERING STUDY <input type="checkbox"/>                              |  | <b>GR - 54</b>  |   |   |  |   |  |   |
| DATE 24 January 1966   |   | AFFECTS: GA531 <input type="checkbox"/>                                 |  | STATINTL  |   |   |  |   |  |   |
| NAME OF MAJOR COMPONENT<br>Recorder  |   | PART OR LOWEST SUBASSEMBLY<br>Vertical Position and Temperature Control |  | PART NO.<br>MODEL OR TYPE<br>531A716-005-103 (old)<br>531A716-008-101 (new) |   |   |  |   |  |   |
| TITLE OF PROPOSAL: Delete Temperature Control  |   |   |  |   |   |   |  |   |  |   |
| NATURE OF PROPOSAL:<br><br>REF: REW KP-I-221 Rev. A.<br><br>Replace the Vertical Position and Temperature Control Assembly 531A716-005-103 with a Vertical Position Assembly 531A716-008-101.<br><br>A Mod. No. will be assigned to the Recorder with this change. |   |   |  |   |   |   |  |   |  |   |
| REASON FOR PROPOSAL:<br>Temperature correction for optical focus not required.<br>This change will improve the reliability of the Vertical Position Assembly by removing the excess circuitry.   |   |   |  |   |   |   |  |   |  |   |
| <b>ES</b>  | ESTIMATED COST AND TIME INVOLVED:<br>ADDITIONAL FUNDING REQUIRED:     |   |  |   |   |   |  |   |  |   |
| <b>CP</b>  | ESTIMATED COST FOR KITS OR PARTS: N/A<br>ADDITIONAL FUNDING REQUIRED: |   |  |   |   |   |  |   |  |   |
| ITEMS AFFECTED BY PROPOSAL: Production units S/N A7002-20 and subs in line. Production units S/N A7002-9 thru 19 and Prototype units 1-8 will be replaced.   |   |   |  |   |   |   |  |   |  |   |
| SAFETY<br><input type="checkbox"/>   | MISSION<br>EFFECT-<br>TIVENESS<br><input checked="" type="checkbox"/> | PERFORM-<br>ANCE<br><input checked="" type="checkbox"/>                 | OPERATING<br>PROCEDURE<br><input type="checkbox"/> | INTER-<br>CHANGE-<br>ABILITY<br><input type="checkbox"/>                    | WEIGHT OR<br>WEIGHT<br>AND<br>BALANCE<br><input type="checkbox"/> | TOOLS AND<br>SUPPORT<br>EQUIPMENT<br><input type="checkbox"/> | MAINTEN-<br>ANCE<br>PROCEDURE<br><input checked="" type="checkbox"/> | SERVICE<br>LIFE<br><input type="checkbox"/> | FLIGHT<br>MANUAL<br><input type="checkbox"/> | MAINTEN-<br>ANCE<br>MANUAL<br><input checked="" type="checkbox"/> |
| ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD: 30 min disassemble; 5 min. replace PC board; 1 hour test; 30 minutes assemble.   |   |   |  |   |   |   |  |   |  |   |
| SOURCE OF PARTS FOR KIT: GR  |   |   | AVAILABILITY <u>6</u> WEEKS AFTER APPROVAL         |   |   |   |  |   |  |   |
| DISPOSITION OF SPARES AFFECTED: Spares to be replaced. PPB to be changed by C/N to PS0.<br>STATINTL  |   |   |  |   |   |   |  |   |  |   |
| If <input type="checkbox"/>  |   |   |  |   |   |   |  |   |  |   |

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|--|--|---|---|---|--|
| <b>GA - 531</b>  |  | ENGINEERING STUDY <input type="checkbox"/><br>CHANGE PROPOSAL <input checked="" type="checkbox"/> |   | <b>GR- 58</b>   |  |
| DATE<br>26 January 1966  |  | AFFECTS: GA 531   |   | STATINTL  |  |
| NAME OF MAJOR COMPONENT<br>Receiver  |  | PART OR LOWEST SUBASSEMBLY<br>I-F Amplifier   |   | PART NO.<br>MODEL OR TYPE<br>531A413-901-103(old)<br>531A413-901-105(new) |  |
| TITLE OF PROPOSAL:<br>ADD I-F LIMITING TO RECEIVER   |  |   |   |   |  |
| NATURE OF PROPOSAL:<br>REF: REW KP-I-237<br><br>Change emitter resistor in I-F Amplifier #3 output stage from 2.0K 5% 1/4w to an 8.2K 5% 1/4w resistor.<br><br>A Mod. Number will be assigned to the 531A400-001-109 Receiver. |  |   |   |   |  |
| REASON FOR PROPOSAL:<br><br>To reduce blooming of strong targets on map film and produce a better quality map.   |  |   |   |   |  |
| <b>ES</b>  |  | ESTIMATED COST AND TIME INVOLVED:<br>ADDITIONAL FUNDING REQUIRED:                                 |   |   |  |
| <b>CP</b>  |  | ESTIMATED COST FOR KITS OR PARTS: N/A<br>ADDITIONAL FUNDING REQUIRED:                             |   |   |  |
| ITEMS AFFECTED BY PROPOSAL: Production Units S/N A4003-22 thru 31.<br>Units 1 thru 21 to be retrofitted.   |  |   |   |   |  |
| SAFETY<br><input type="checkbox"/>   | MISSION EFFEC- TIVENESS<br><input checked="" type="checkbox"/> | PERFORM- ANCE<br><input checked="" type="checkbox"/>  | OPERATING PROCEDURE<br><input type="checkbox"/> | INTER- CHANGE- ABILITY<br><input type="checkbox"/>                        | WEIGHT OR WEIGHT AND BALANCE<br><input type="checkbox"/> |
| TOOLS AND SUPPORT EQUIPMENT<br><input type="checkbox"/>  | MAINTENANCE PROCEDURE<br><input type="checkbox"/>              | SERVICE LIFE<br><input type="checkbox"/>  | FLIGHT MANUAL<br><input type="checkbox"/>       | MAINTENANCE MANUAL<br><input type="checkbox"/>                            |  |
| ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD: 45 minutes disassemble receiver, 45 min. rework I-F amplifier and 1 hr to Test.<br>1 hour to reassemble.   |  |   |   |   |  |
| SOURCE OF PARTS FOR KIT:<br>GR   |  |   | AVAILABILITY <u>4</u> WEEKS AFTER APPROVAL      |   |  |
| DISPOSITION OF SPARES AFFECTED: Spares to be reworked to latest configuration.<br>PPB to be changed by C/N to PSO.<br>STATINTL   |  |   |   |   |  |
| IN <span style="border: 1px solid black; display: inline-block; width: 600px; height: 40px; vertical-align: middle;"></span>   |  |   |   |   |  |